

CORVALLIS

PEORIA

Williamette River

Muddy Creek

JUNCTION CITY

Central Coast/Upper Willamette Watershed

Pilot Proposal

Southern Willamette Valley Ground Water Management Area

Targeting areas of excessively, somewhat excessively, or well drained soils

Overview of Project Resource Issues and Conservation Treatments

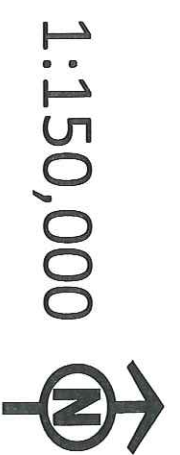
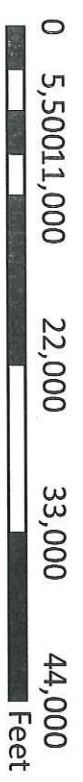
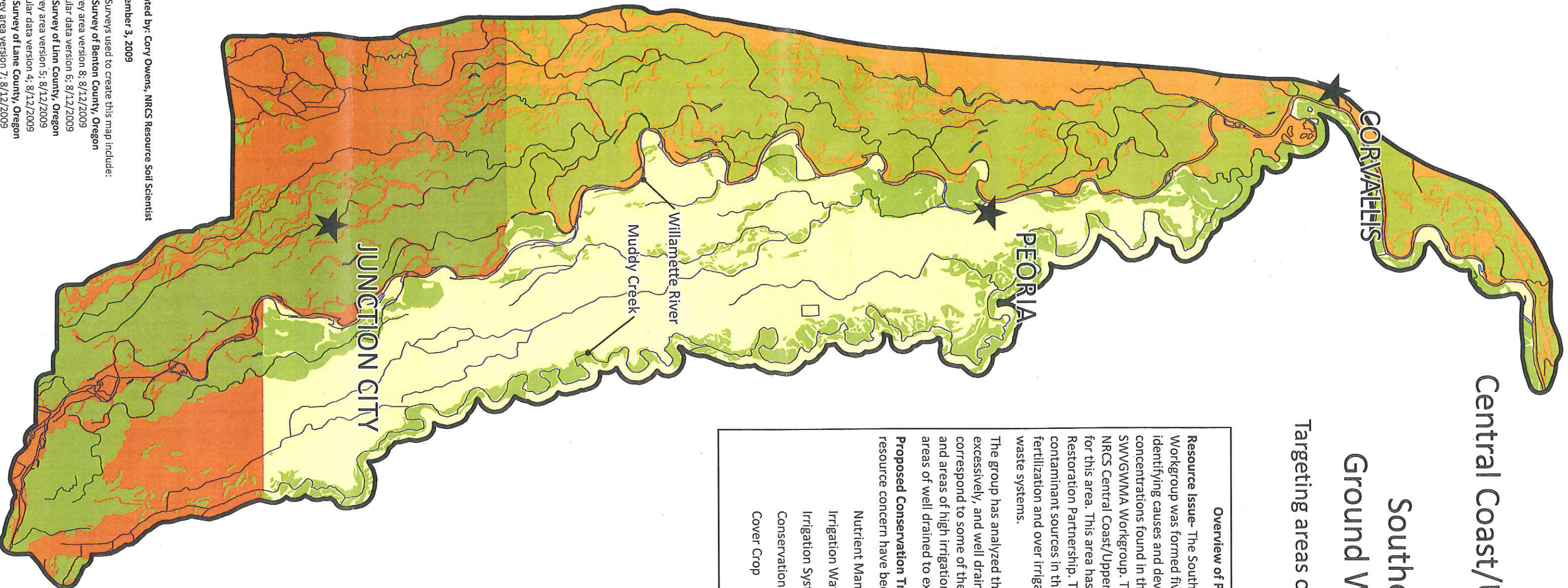
Resource Issue- The South Willamette Valley Groundwater Management Area (SW/GWMA) Workgroup was formed five years ago and has been meeting regularly with the purpose of identifying causes and developing potential solutions for the high groundwater nitrate concentrations found in the GWMA. There are approximately 20 partners in the SW/GWMA Workgroup. This area is part of the Upper Willamette HUC watershed. The NRCS Central Coast/Upper Willamette Basin has developed a Rapid Watershed Assessment for this area. This area has been identified as a high priority for the Willamette Wetland Restoration Partnership. The workgroup has identified several potential groundwater contaminant sources in the area including nitrate leaching from cropland due to excessive fertilization and over irrigation, rural residential septic systems, and CAFP/AFO animal waste systems.

The group has analyzed the soils in the area and found that excessively, somewhat excessively, and well drained soils that occur two to four miles from the Willamette River correspond to some of the highest areas of nitrate concentration, intensively farmed areas, and areas of high irrigation. The watershed pilot proposal would include treatment of these areas of well drained to excessively drained soils.

Proposed Conservation Treatments- The following conservation treatments to address the resource concern have been identified:

- Nutrient Management
- Irrigation Water Management
- Irrigation Systems
- Conservation Crop Rotation
- Cover Crop

Adapted from the CC/UV
Watershed Pilot Proposal SW/GWMA
by Gary Briggs, NRCS Basin Team Leader



Created by: Cory Owens, NRCS Resource Soil Scientist
December 3, 2009

Soil Surveys used to create this map include:

- Soil Survey of Benton County, Oregon
- Tabular data version 8; 8/12/2009
- Soil Survey of Linn County, Oregon
- Survey area version 5; 8/12/2009
- Tabular data version 4; 8/12/2009
- Soil Survey of Lane County, Oregon
- Survey area version 7; 8/12/2009
- Tabular data version 6; 8/12/2009
- Tract boundaries and acreages are from the Benton, Linn, and Lane Farm Service Agency Common Land Unit Map referenced 12/1/2009